1013.1

## **SECTION 1013—ALUMINUM BRIDGE RAILING**

- **1013.1 DESCRIPTION**—This work is the construction of an aluminum bridge railing.
- **1013.2 MATERIAL**—Before fabrication, submit shop drawings for review and acceptance.
  - (a) Railing.
    - Cast Aluminum Railing Posts—<u>ASTM B 108</u>, Alloy A444-T4 or <u>ASTM B 26/B 26M</u>, Alloy SG70A-T6.
    - Aluminum-Alloy Extruded Bars, Rods, Shapes, and Tubes—<u>ASTM B 221/B 221M</u>, Alloy 6061-T6 or 6351-T5.
    - Aluminum-Alloy Drawn Seamless Tubes—ASTM B 210/B 210M-Alloy 6061-T6.
    - Aluminum-Alloy Seamless Pipe and Seamless Extruded Tube—<u>ASTM B 241</u>, Alloy 6061-T6, 6061-T4 or Aluminum-Alloy Extruded Structural Pipe and Tube <u>ASTM B 429</u>, Alloy 6061-T6.
    - Aluminum-Alloy Sheet and Plate—<u>ASTM B 209/B</u> 209M-Alloy 6061-T6, 1100-0 or Alclad 2024-T4.
    - Aluminum-Alloy Bars, Rods, and Wire—<u>ASTM B 211/B 211M</u>, Alloy 6061-T6, 6262-T9, or 2024-T4. (Alloy 2024-T4 with an anodic coating of 5 μm (0.0002 inch) minimum thickness and dechromate or boiling water seal.)
    - Aluminum-Alloy Standard Structural Shapes, Rolled or Extruded—<u>ASTM B 308/B 308M</u>-Alloy 6061-T6
    - Toggle Bolts—Section 1014.2(a)
    - Miscellaneous—Aluminum wedges, shims, end caps, washers, and nuts of acceptable material.

Certify as specified in Section 106.03(b)3.

- (b) Anchor Bolts, Nuts, and Washers. Section 1105.02(c)2, galvanized as specified in Section 1105.02(s).
- (c) Caulking Compound. Section 705.8
- **1013.3 CONSTRUCTION**—As shown on the <u>Standard Drawings</u> and as follows:
  - (a) General. Section 1012.3(a)
  - **(b)** Assembly. Section 1012.3(b) except:

At bend areas, do not vary the diameter of rail tubes by more than 5% of the outside diameter, when rail tubes are bent to the radii indicated.

## **1013.4 MEASUREMENT AND PAYMENT**—Meter (Linear Foot)

Measured from center-to-center of end posts. The Department will not deduct gaps at lighting pole foundations.